

#### Testimony to Senate Energy and Technology Committee

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#### Michigan's Energy Successes **Need to Continue**

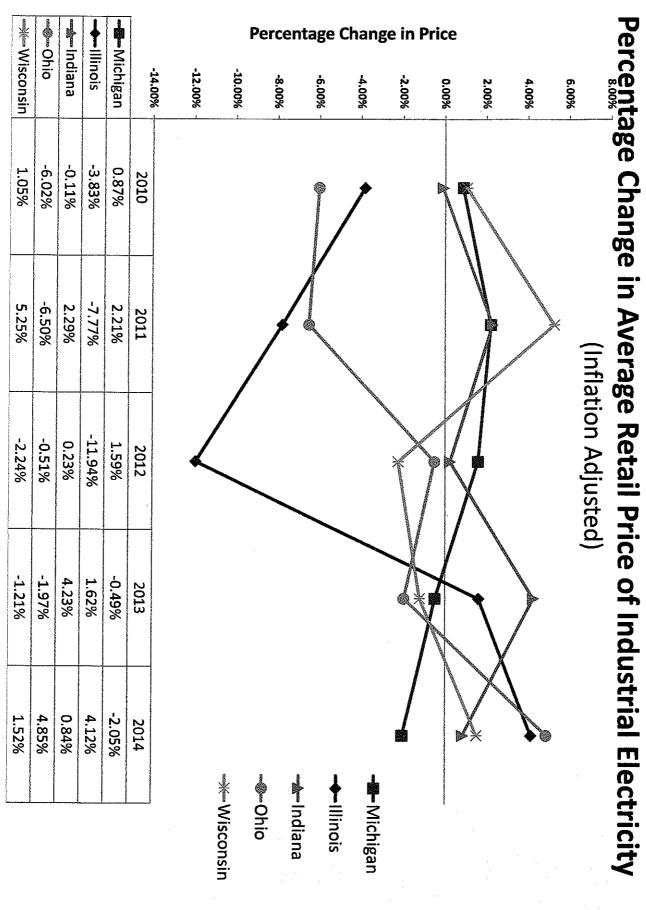
- We solved a major reliability crisis that quickly became a major competitiveness crisis
- Our environmental impact from our electric than other states in our EIA region sector has been declining, and is much lower
- economically competitive We did this while becoming more
- Michigan must continue to improve, adapt

# Michigan's Competitiveness

Average Price of Electricity for Industrial Customers (cents/kWh)

	JE 2014	June 2015	Percent Change
Michigan	8.02	7.39	
	6.35	<b>6 1 1 1</b>	-3.8 %
Edella	68.6	570	, , , ,
	6.76	7.14	+ 5.0
Wisconsin	7.94	8.25	+ 39%

Source: EIA data



Source: EIA data, MAE analysis

## We Are At a Crossroads

- dictate our energy future. We can continue to make our own decisions, can allow the federal government to step in and being ready to adapt to what lies ahead, or we
- To protect Michigan's jurisdiction and our ratepayers and citizens, we need:
- The ability to craft our own reliability solutions
- Better, more adaptable decision making
- Continued focus executing no-regrets options
- choose it for us. If we don't choose our path soon, the feds will

# MI Utility Coal Plant Retirements

	25 units 2233 MW	25 units	Total:		Source: MPSC Staff
	THE STATE OF THE S		(Marquette Co.)		
2020	450	<b>O</b>	Marquette	Presque Isle	Wisconsin Electric
wike-			(Ingham Co.)		Water and Light
~2018	335	6	Lansing	Eckert	Lansing Board of
			(Ottawa Co.)		Public Works
~2017	63	S	Holland	DeYoung	Holland Board of
			(Hillsdale Co.)	The state of the s	Power Agency
2016	55	<b></b>	Litchfield	Endicott	Michigan South Central
			(Monroe Co.)		
2016	345	3	Erie	JR Whiting	Consumers Energy
			(Bay Co.)		
2016	312	2	Essexville	JC Weadock	Consumers Energy
A STATE OF THE STA			(Muskegon Co.)		
2016	312		Muskegon	BC Cobb	Consumers Energy
			(Wayne Co.)		
2016	240	2	Trenton	Trenton Channel	DTE Electric
			(Huron Co.)		
2013	121		Harbor Beach	Harbor Beach	DTE Electric
Date					
Retirement	Calpacity	Number	Location	Plant	Udility
	Name of a ta				

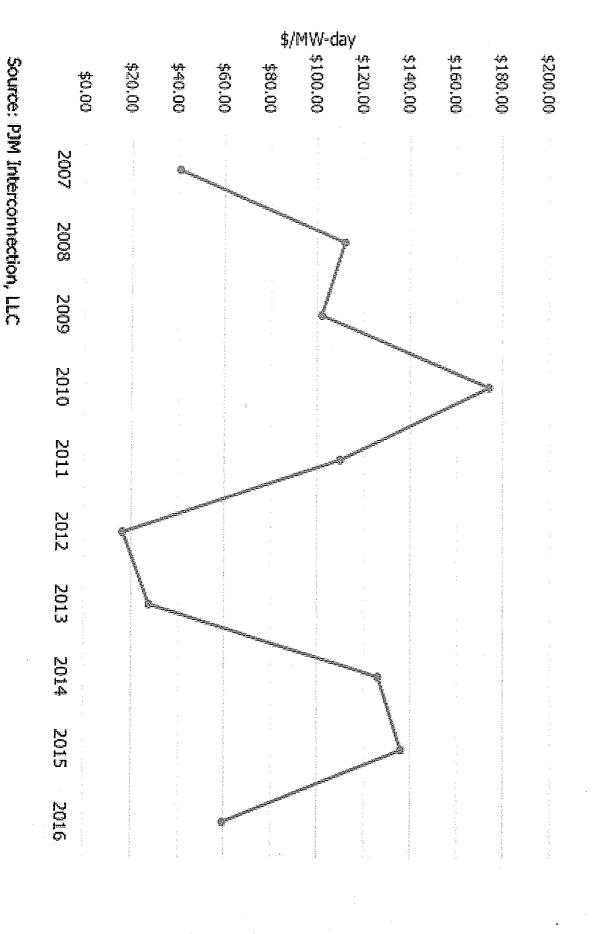
# Our Reliability: MPSC Findings

- due to lack of supply between now and 2020. MPSC does not expect a large-scale outage
- We will be purchasing on the market to prevent that, at the auction price.
- If those prices spike (e.g. if a contraction of dramatically in a very short time period for all supply drives prices up), costs can go up Michigan consumers.

# UP: A Taste of the Future?

- When you have "must run" plants and no plan in jurisdiction over: place to respond to reliability need, we lose
- Costs ratepayers pay for operating those plants
- Which ratepayers will pay
- What alternative, at what cost, and who will pay for
- Reclaiming jurisdiction from feds extremely hard
- base for financing facilities, large plants need a long-term customer Even with guaranteed payments for must-run

# PJM Capacity Auction Clearing Prices



## PIPP: Lessons Learned

- We need to know where we are getting our consumers from unexpected rate hikes customers for it – to protect all energy capacity, and ensure support from all
- We need better planning that looks at the whole portfolio and whole range of solutions
- We need to get in front of the feds be they MISO, FERC, or the EPA

#### Better Decision-Making Builds on Michigan's Successes

- Certificate of Need with Integrated Resource **Planning**
- Have seen it both allow a utility to make large for not building itself investments in capacity and cause a utility to opt
- Offers pre-approval of costs, but puts projects to a (most reasonable and prudent) much more stringent test than other investments

#### CON/IRP proposal

- Goal: approve a portfolio that is the most reliability standards and environmental cost-effective, complies with applicable regulations, and maximizes adaptability. reasonable and prudent alternative, which is
- Look at things holistically, be able to "roll up" the plans to ensure compliance
- Avoid conflicting mandates
- Offer an off-ramp if the world changes

### A Successful CON/IRP

- Must weigh both capital (a new gas plant or similar to those for less good alternatives economic incentives for best alternatives are wind farm) and non-capital alternatives (waste reduction, demand response), and ensure
- Must have a financial reward for higher test
- Must allow alternatives to come in and "make their case"

## Why This Is Improvement

- Adaptability Increased
- Better comparisons. Higher standards. Off-ramps. Better information.
- Affordability Increased
- Higher standards. More options compared, open process. Finds best way to meet multiple goals.
- Reliability Increased
- Requires more planning, allows region-wide approach
- **Environmental Protection Increased**
- No artificial limits or lack of compensation for no emission resources (e.g. peak shaving, waste)

### Why An Improvement Over Current Law

- Puts all investments on equal footing
- No barrier to putting renewable energy to same test (CON standard now does not allow that)
- Gets rid of \$500M threshold so smaller put to same test as one investment does plants/investments with big cumulative totals get
- Not limited to new plants, investments, or long alternatives PPAs; allows similar benefits to accrue to

### Why An Improvement Over Current Law

- Much tougher standard for all investments "just and reasonable") ("**most** reasonable and prudent" instead of
- Wider potential for pre-approvals should lower financing costs (lower risk)
- conditions More adaptable with an off-ramp for changing

### Why An Improvement Over Current Law

- Limitations of current energy waste law
- Cap on amount that can be spent is 2% of total retail sales, even if alternatives cost much more
- Independent study predicted this will limit electric waste reduction to 0.6%- 0.7%/yr by 2025
- Limits on compensation make it non-preferred even when cost-effective
- Electric decoupling not authorized
- Limit on amount of peak shaving that can be compensated (10% of waste reduction)
- No pre-approval via CON

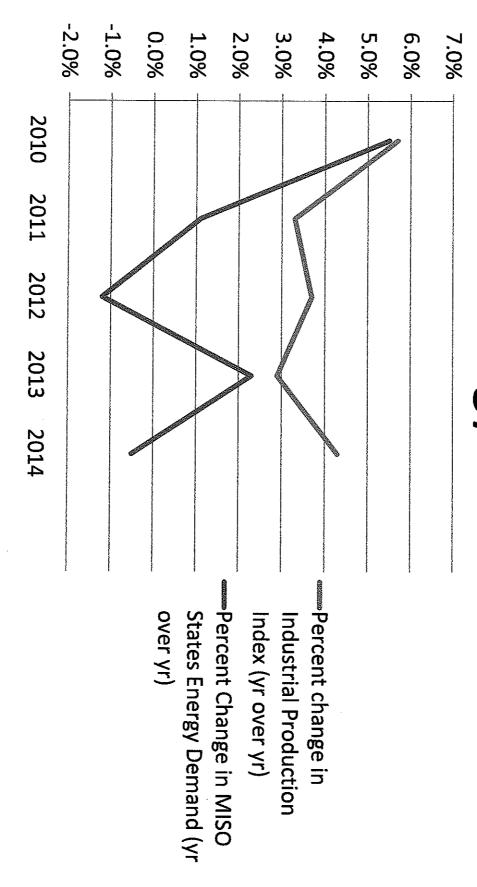
#### What We Expect to See: No-Regrets Alternatives Win

- Example: Energy Waste Reduction
- Lifecycle savings to MI ratepayers due to Energy period was approximately \$24 billion.) 2009. (Total fuel cost for the state over that time Optimization Programs equal \$4.2 billion since
- It is cheaper to help buy your neighbor's insulation than Wyoming's coal.
- Michigan schools save \$12.2 million annually a figure that rises if energy prices rise
- Michigan colleges and universities save \$6.4 million annually.

#### It Does Work

- We do NOT pay our utilities without demonstrated success
- and statistical work, that these programs save Michiganders real money. We have shown, with Michigan-specific data

#### Dictates Energy Demand Growth Economic Growth No Longer



Source: MISO Independent Load Forecast, November 2014